UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/687,437	10/16/2003	Sang Hoo Dhong	ROC920030114US1	8772
30206 IBM CORPOR	7590 03/21/200 ATION	EXAMINER		
ROCHESTER I 3605 HIGHWA	IP LAW DEPT. 917	DO, CHAT C		
	MN 55901-7829	ART UNIT	PAPER NUMBER	
			2193	
			MAIL DATE	DELIVERY MODE
			03/21/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
	10/687,437	DHONG ET AL.				
Office Action Summary	Examiner	Art Unit				
	CHAT C. DO	2193				
The MAILING DATE of this communication app	ears on the cover sheet with the c	orrespondence address				
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE <u>3</u> MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1)⊠ Responsive to communication(s) filed on <u>10 Ja</u>	nnuarv 2008.					
	action is non-final.					
3) Since this application is in condition for allowar		esecution as to the merits is				
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1-24</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdraw						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-24</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	r election requirement.					
Application Papers						
9) The specification is objected to by the Examine	r.					
10) ☐ The drawing(s) filed on is/are: a) ☐ acce		Examiner.				
Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correct	ion is required if the drawing(s) is obj	jected to. See 37 CFR 1.121(d).				
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12)☐ Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a))-(d) or (f).				
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)	_					
1) Notice of References Cited (PTO-892)	4) ☐ Interview Summary Paper No(s)/Mail Da					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08)	5) Notice of Informal P					
Paper No(s)/Mail Date	6) 🔲 Other:					

Application/Control Number: 10/687,437 Page 2

Art Unit: 2193

DETAILED ACTION

1. This communication is responsive to Amendment filed 01/10/2008.

2. Claims 1-24 are pending in this application. Claims 1, 11, and 21-22 are independent claims. In Amendment, claims 1, 11, and 21-22 are amended. This Office Action is made non-final after a RCE filed 01/10/2008.

Claim Rejections - 35 USC § 101

3. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

4. Claims 1-24 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

Claims 1-24 cite a method and apparatus for determining the interval of which the sum of two numbers is resided in accordance with a mathematical algorithm. However, claims 1-24 merely disclose steps/components for determining the interval of which the sum of two numbers is resided without further disclosing a practical/physical application. Further, the claims appear to preempt every substantial practical application of the idea embodied by the claims. Therefore, claims 1-24 are directed to non-statutory subject matter.

Application/Control Number: 10/687,437 Page 3

Art Unit: 2193

Response to Arguments

5. Applicant's arguments filed 01/10/2008 have been fully considered but they are not persuasive.

a. The applicant argues in page 9 last paragraph for claims 1-24 that the claims should be statutory since they claim a circuit having fewer than n compress circuits since a separation compare circuit for each interval is expensive and consumes device real estate.

The examiner respectfully submits that feature of having fewer than n compress circuits due to less expressive and consume less real estate in the device is not directly seen or cited in the claim. The applicant is suggested further include this feature into the claims.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chat C. Do whose telephone number is (571) 272-3721. The examiner can normally be reached on M => F from 7:00 AM to 5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lewis Bullock can be reached on (571) 272-3759. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Application/Control Number: 10/687,437 Page 4

Art Unit: 2193

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Chat C. Do/ Primary Examiner, Art Unit 2193

March 16, 2008

Application Number

Application/Control No.		Applicant(s)/Patent under Reexamination		
10/687,437		DHONG ET AL.		
	Examiner	Art Unit		
	CHAT C DO	2103		

U.S. Patent and Trademark Office Part of Paper No. 20080316